

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS PO Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,202	03/26/2004	Robert B. Collier	24A01.1-040	2898	
2596 7590 96/12/2008 GARDNER GROFF GREENWALD & VILLANUEVA. PC 2018 POWERS FERRY ROAD SUITE 800 ATLANTA. GA 30339			EXAM	EXAMINER	
			THOMAS, JAISON P		
			ART UNIT	PAPER NUMBER	
,			1796		
			MAIL DATE	DELIVERY MODE	
			06/12/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/811,202	COLLIER ET AL.	
Examiner	Art Unit	
Jaison P. Thomas	1796	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

-	enou for Reply
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1736(s). In no event, however, may a roply be timely filed after SIX (6) MONTHS from the mailing date of the communication
St	tatus
	Responsive to communication(s) filed on <u>01 February 2008</u> . 2a]□ This action is FINAL. 2b)⊠ This action is non-final. 3]□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Di	isposition of Claims
	4) □ Claim(s) 1 and 3-64 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1.3-6 and 8-64 is/are rejected. 7) □ Claim(s) 7 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.
Αŗ	pplication Papers
	9) The specification is objected to by the Examiner. 10) The drawing(s) filed onis/are: a)accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Pr	riority under 35 U.S.C. § 119
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Imformation Disclosure Statement(s) (PTO/SD/08) Paper No(s)/Mail Date 2/1/2008.
- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.
- 5) Notice of Informal Patent Application. 6) Other: __

Application/Control Number: 10/811,202 Page 2

Art Unit: 1796

DETAILED ACTION

1. This action is responsive to amendments filed on 2/1/2008.

2. Claim 1, 3-64 are pending. Claims 63 and 64 are new. Claims 1,36-38 and 40-

42 are amended.

 $3. \qquad \text{The rejections of Claims 1-24, 26-38,} \\ 40\text{-}42\text{,} 44\text{-}47\text{,} 49\text{-}51153\text{-}57 \text{ and } 59\text{-}61 \text{ under} \\$

35 U.S.C. 103(a) as being unpatentable over Knowlton et al. (US Patent

5073442) in view of Dahanayake et al. (US Patent 6242404) and Carter et al.

(US Patent Application Pub. 2002/0142937) are withdrawn in view of Applicant's

amendments.

4. The rejections of Claims 1-7,12-24, 26-38,40-42,44-47,49-51,53-57 and 59-61

under 35 U.S.C. 103(a) as being unpatentable over Brown (US Patent 5514302)in view

of Dahanayake et al. (US Patent 6242404) and Carter et al. (US Patent Application Pub.

2002/0142937) are withdrawn in view of Applicant's amendments.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1,3-6 and 8-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown (US Patent 5514302) in view of Kilkenny et al. (US Patent Application Publication No. 2003/0100465) and Woo et al. (US Patent 6833342).

Art Unit: 1796

Brown teaches a fabric cleaning shampoo composition which contains 0.5 to 20 % of a fabric cleaning polymer, 0.1 to 10 % of a specific type of wax, 0.05 to 5% of silicone betaine polymer and an effective amount of surfactant (Abstract) including nonionic, anionic. Examples of anionic surfactants that are used include alkyl sulfonates (Col. 5, line 38) present in the composition from 0.5 to 20 % by weight of the composition. The wax can be synthetic, natural or waxlike organic substances and examples include maleinized and acrylated polyethylene waxes which Examiner construes as being equivalent to a waxmodified polymer as recited in Claim 1. The composition can also include solvents

Brown is relied upon as discussed above, however, Brown does not teach a polyester polymer wherein the polyester is not derived from a polyoxyalkylene glycol or zeolites.

Kilkenny et al. teaches a composition for cleaning of hard surfaces (Abstract) wherein the hard surfaces including rug cleaning (pg. 2, para. 0010) wherein one embodiment of the composition includes soil release polymers such as copolymers of terephthalic acid and ethylene glycol or propylene glycol (pg. 17, para. 0034). The cleaning composition can include

Woo et al. teaches a composition used to deodorize carpets which contains additional odor absorbers including zeolites such as silicate/aluminate zeolites or activated carbons.

Art Unit: 1796

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the cleaning compositions of Brown with those of Kilkenny and Woo since it is prima facie obvious to combine compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846,850,205 USPQ 1069, 1072 (CCPA 1980). Alternatively, 'The combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results." See *KSR v. Teleflex*, 127 S Ct. at 1739.

With respect to the glass transition temperature limitations of the polyester of instant Claims 1,4,5, and 40 the examiner respectfully submits that the prior art would reasonably meet the claimed limitation. Specifically Kilkenny et al. teach similar materials used in similar situations to those required by the instant claims and therefore would reasonably possess the glass transition temperatures and covalent bonding characteristics required.

With respect to the disodium alpha olefin sulfonate limitation of instant Claim 21, and the weight limitations of the polyester, wax-modified polymer, zeolites, surfactants, and metal oxides of instant Claims 6, 12, 15, 16, 22 and 26 it would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the combined composition of Knowlton/Kilkenny/Woo through routine experimentation for best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained

Art Unit: 1796

through routine experimentation unless there is a showing of unexpected results which properly rebuts the prima facie case of obviousness. See In re Boesch, 617 F.2d 272,276,205 USPQ 215, 219 (CCPA 1980). See also In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and In re Aller, 220 F.2d 454,456, 105 USPQ 233,235 (CCPA 1955).

With respect to the hydrazine and amine absence limitations of instant Claims 30, 31,36, 37, 41,45, 46, 50, 55, 56, and 60, the references are silent with respect to the presence of hydrazine or an amine particle.

 Claims 1,3-6 and 8-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knowlton (US Patent 5073442) in view of Kilkenny et al. (US Patent Application Publication No. 2003/0100465) and Woo et al. (US Patent 6833342).

Knowlton teaches a composition for improving soil and stain resistance on fabrics using a "variety of combinations of sulfonated resin, sulfonated phenolic compounds, compounds of sulfonated phenolics and aldehydes, fluorochemicals, modified wax emulsions ..." (Abstract). The wax emulsions are further described as "[p]araffinic wax emulsion, microcrystalline wax emulsion, metalized wax emulsion such as aluminum salt/wax emulsion or zirconium salt/wax emulsion, modified fatty amide dispersions, anionic resinous wax emulsion such as melamine wax emulsion" (Column 2, lines 1-7). The types of phenolic resins disclosed include condensation products of formaldehyde with several different types of compounds disclosed in Column1, lines 45-52. Examples of the composition include water as a solvent (Column 4, lines 40-48). Methods of

Art Unit: 1796

application of the composition and the resulting carpet article are disclosed in Example 1 (Column 6, lines 15-23).

Knowlton is relied upon as discussed above, however, Knowlton does not teach a polyester polymer wherein the polyester is not derived from a polyoxyalkylene glycol or zeolites and activated carbon.

Kilkenny et al. teaches a composition for cleaning of hard surfaces (Abstract) wherein the hard surfaces including rug cleaning (pg. 2, para. 0010) wherein one embodiment of the composition includes soil release polymers such as copolymers of terephthalic acid and ethylene glycol or propylene glycol (pg. 17, para. 0034). The cleaning composition can also include builder compounds such as silicate compounds (pg. 12, para. 0029) and surfactants such olefin sulfonates (pg. 9, para. 0026).

Woo et al. teaches a composition used to deodorize carpets which contains additional odor absorbers including zeolites such as silicate/aluminate zeolites or activated carbons.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the cleaning compositions of Knowlton with those of Kilkenny and Woo since it is prima facie obvious to combine compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846,850,205 USPQ 1069, 1072 (CCPA 1980). Alternatively, 'The combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results." See *KSR v. Teleflex*, 127 S Ct. at 1739.

Art Unit: 1796

With respect to the glass transition temperature limitations of the polyester of instant Claims 1,4, 5, and 40 the examiner respectfully submits that the prior art would reasonably meet the claimed limitation. Specifically Kilkenny et al. teach similar materials used in similar situations to those required by the instant claims and therefore would reasonably possess the glass transition temperatures and covalent bonding characteristics required.

With respect to the disodium alpha olefin sulfonate limitation of instant Claim 21, and the weight limitations of the polyester, wax-modified polymer, zeolites, surfactants, and metal oxides of instant Claims 6, 12, 15, 16, 22 and 26 it would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the combined composition of Knowlton/Kilkenny/Woo through routine experimentation for best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected results which properly rebuts the prima facie case of obviousness. See In re Boesch, 617 F.2d 272,276,205 USPQ 215, 219 (CCPA 1980). See also In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and In re Aller, 220 F.2d 454,456, 105 USPQ 233,235 (CCPA 1955).

With respect to the hydrazine and amine absence limitations of instant Claims 30, 31,36, 37, 41,45, 46, 50, 55, 56, and 60, the references are silent with respect to the presence of hydrazine or an amine particle.

Application/Control Number: 10/811,202 Page 8

Art Unit: 1796

Allowable Subject Matter

8. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Specifically, all independent claims would be allowable if the limitations of Claim 7 are inserted in the independent claims. The prior art does not teach a cleaning composition which contains polyester, zeolite or activated carbon and a wax-modified polymer wherein the the wax is covalently bonded to the polymer backbone.

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaison P. Thomas whose telephone number is (571) 272-8917. The examiner can normally be reached on Mon-Fri 9:30 am to 6:00 pm.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/811,202 Page 9

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. P. T./ Examiner, Art Unit 1796 /Lorna M Douyon/ Primary Examiner, Art Unit 1796